

TITLE 22. Social Security

Division 4. Environmental Health

Chapter 16. California Waterworks Standards

Article 2. General Requirements

§64562. Quantity of Supply.

§64562. Quantity of Supply.



• Note • History

(a) Sufficient water shall be available from the water sources and distribution reservoirs to supply adequately, dependably and safely the total requirements of all users under maximum demand conditions before agreement is made to permit additional service connections to a system.

(b) To ascertain this, first determine the total capacity of the existing source by procedures prescribed in Section 64563 and determine the total storage volume of the existing distribution reservoirs. Then determine the needed source capacity and the needed storage volume by procedures prescribed in Section 64564. The total available source capacity shall not be less than the needed source capacity.

(c) The requirements of this section shall apply to an entire public water system and to each pressure zone within a public water system.

(1) Requirements for an entire public water system shall be determined from the total source capacity, total storage volume and the total number of service connections.

(2) Requirements for a particular pressure zone shall be determined from the total water supply available from the water sources and interzonal transfers directly supplying the zone, from the total storage volume within the zone and from the number of service connections within the zone.

NOTE

Authority cited: Sections 208 and 4010.1 (h), Health and Safety Code. Reference: Sections 4010.1 (h), 4012, 4013 and 4019, Health and Safety Code.

HISTORY

1. Amendment filed 10-9-85; effective thirtieth day thereafter (Register 85, No. 42).

TITLE 22. Social Security

Division 4. Environmental Health

Chapter 16. California Waterworks Standards

Article 2. General Requirements

§64564. Procedures for Determining Needed Source Capacity and Needed Storage Volume.

§64564. Procedures for Determining Needed Source Capacity and Needed Storage Volume.



• Note

(a) Whenever possible, needed source capacity and needed storage volume shall be determined from existing water use records of the water system.

The records used shall clearly indicate total source capacity, total storage volume and maximum day demand of previous years.

The existing records of the water system may be supplemented as needed by the records of a similar water system acceptable to either the Department or a qualified registered engineer.

(b) When the existing records of the water system are inadequate to determine these values and no records of a similar water system can be found to supplement the existing records, the maximum day demand, the needed source capacity and the needed storage volume for typical residential and general commercial areas (without provisions for fire flow) shall be determined as follows:

(1) Determine the maximum day demand (Q_o) from Chart 1 or Chart 2.

(2) When the total capacity of the existing sources equals the maximum day demand (Q_o), the needed storage volume (V_o) to meet peak demand during the day shall be determined from Chart 3 or Chart 4.

(3) When the total storage volume of the existing reservoirs (V) is less than the needed storage volume (V_o), the existing sources shall be supplemented so that the needed source capacity (Q) is met. For a metered water system, $Q = Q_o (2.5 - 1.5V/V_o)$ or for a flat rate water system, $Q = Q_o (2 - V/V_o)$.

(c) The needed source capacity and needed storage volume determined under (b) may be modified, with the approval of the Department, to reflect local conditions such as climate, community type and kinds of users. Unless the Department's written approval is obtained, the needed source capacity shall not be less than the maximum day demand.

(d) The data used and the calculation made by the water supplier to determine whether sufficient water is available to accommodate additions to the systems must be kept and are subject to the Department review and approval at its discretion.

NOTE

Authority cited: Sections 208 and 4010.1 (h), Health and Safety Code. Reference: Sections 4010.1 (h), 4012, 4013 and 4019, Health and Safety Code.

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HISTORY

1. Amendment filed 10-9-85; effective thirtieth day thereafter (Register 85, No. 42).

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TITLE 22. Social Security

Division 4. Environmental Health

Chapter 15. Domestic Water Quality and Monitoring Regulations

Article 2. General Requirements

§64412. Determination of Persons Served.

§64412. Determination of Persons Served.



• Note • History

(a) The number of persons served by a community water system shall be determined by the water system using one of the following methods:

- (1) Utilizing the most recent United States census data, or more recent special census data certified by the California Department of Finance, for the service area served by the water system;
- (2) Multiplying the number of service connections served by the water system by 3.3 to determine the total population served;
- (3) Determining the total number of dwelling units or efficiency dwelling units as defined in the Uniform Building Code (Title 24, California Code of Regulations), the number of mobile home park spaces and the number of individual business, commercial, industrial and institutional billing units served by the water system and multiplying this total by 2.8 to arrive at the total population served by the system.

(b) Each community water system shall report to the Department annually the number of persons and the number of service connections served by the system using the procedures set forth in subsection (a).

NOTE

Authority cited: Sections 4021(b)(3) and 4023.3, Health and Safety Code. Reference: Sections 4012 and 4023.3, Health and Safety Code.

HISTORY

1. New article 2 and repealer and new section filed 9-8-94 as an emergency; operative 9-8-94 (Register 94, No. 36). A Certificate of Compliance must be transmitted to OAL by 1-6-95 or emergency language will be repealed by operation of law on the following day. For prior history, see Register 90, No. 13.
2. New article 2 and repealer and new section refiled 1-3-95 as an emergency; operative 1-3-95 (Register 95, No. 1). A Certificate of Compliance must be transmitted to OAL by 5-3-95 or emergency language will be repealed by operation of law on the following day.
3. New article 2 and repealer and new section refiled 4-26-95 as an emergency; operative 4-26-95 (Register 95, No. 17). A Certificate of Compliance must be transmitted to OAL by 8-24-95 or emergency language will be repealed by operation of law on the following day.
4. Certificate of Compliance as to 4-26-95 order transmitted to OAL 5-5-95 and filed 6-19-95 (Register 95, No. 25).

TITLE 22. Social Security

Division 4. Environmental Health

Chapter 16. California Waterworks Standards

Article 2. General Requirements

§64563. Procedures for Determining Source Capacity.



§64563. Procedures for Determining Source Capacity.



• Note



(a) The source capacity of a well shall be based on the sustained yield of the well or pump output, whichever is less.

(1) Sustained yield of a well shall be determined from a pump test or from historical records.

(2) The conditions of a pump test used to determine sustained yield of a well shall be acceptable to the Department and shall include:

(A) Constant rate of water discharge from the well during the pump test.

(B) Continuation of the pump test until at least four consecutive measurements of water level drawdown in the well and the elapsed time since the beginning of the pump test yield a straight line when the drawdown is plotted against the logarithm of the elapsed time.

(b) The source capacity of a surface water supply or a spring shall be the lowest anticipated daily yield, based on adequately supported and documented data.

(c) The source capacity of a purchased water connection between two public water systems shall be included in the total source capacity of the purchaser if the purchaser has sufficient storage or standby source capacity to meet user requirements during reasonably foreseeable shutdowns by the supplier.

(d) Where the capacity of a source varies seasonally, the source capacity shall be the capacity at the time of maximum day demand.



NOTE



Authority cited: Sections 208 and 4010.1 (h), Health and Safety Code. Reference: Sections 4010.1 (h), 4012, 4013 and 4019, Health and Safety Code.